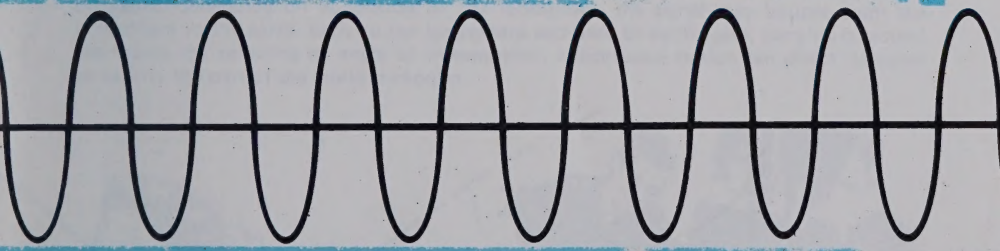
Ai Rhapsody®

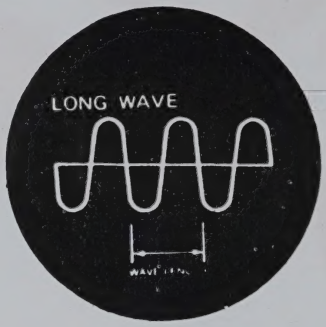
SHORT WAVE



The Difference Between Standard and Shortwave Broadcasting

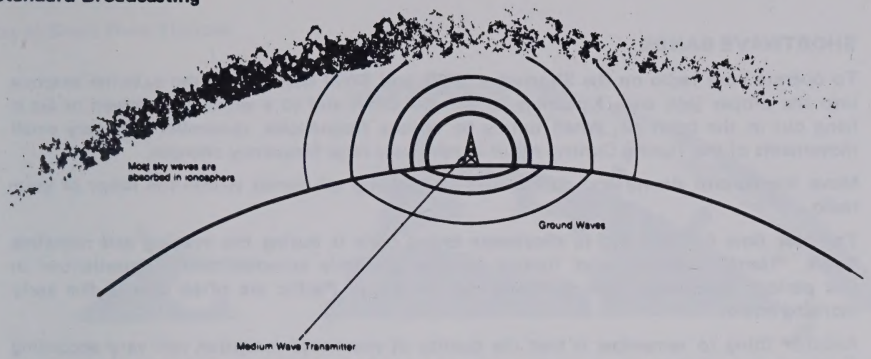
Broadcasting is based on principle of radio "waves" that travel at the speed of light. The distance between the peaks of the waves is known as the "wave length." If the peaks are far apart, the signal is known as "long wave", if they are close together, it is called "short wave."

"Frequency" is determined by how fast the waves pass a given point in one second of time. The long waves pass more slowly and are called low-frequency waves; the shorter waves pass more quickly and are called high-frequency waves. Wave lengths are expressed in meters, and frequencies are expressed in cycles per second.



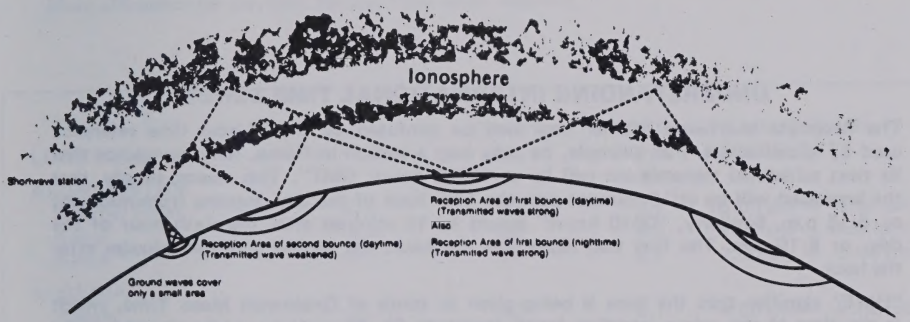
Every radio station in the world is assigned one or more frequencies (wave lengths) on which it may broadcast. The radio *receiver* selects out the frequencies within its range and reproduces the resultant sound for listening.

Standard Broadcasting



Standard broadcast stations are assigned the medium wave lengths — those frequencies between 540 and 1600 KHz. Waves emanate outward from the transmitter as shown in the diagram. Since the longer waves penetrate the ionosphere (an electrically-changed layer surrounding the earth at an altitude of about 25 miles) and travel out into space, signals on earth can only be received from those waves that stay close to the ground, limiting the area of effective broadcast.

Shortwave Broadcasting



Shortwave stations are assigned those frequencies above 4.0 MHz. Since shortwave signals are transmitted directionally, ground waves cover only a small area around the transmitter. But, because the short, high-frequency waves tend to "bounce back" from the ionosphere, the signals may be received in any area to which the signals bounce back to earth (see diagram). Depending on conditions of the ionosphere, the signal may bounce from the ionosphere to the earth, back to the ionosphere and back to earth again, carrying it around the world. By selecting its angle of transmission, a shortwave station can direct its signal to exactly the part of the world it chooses.

SHORTWAVE BANDS

To operate your radio on the Shortwave (SW1 and SW2) bands, plug the external antenna into the proper jack and if possible, attach the other end to a window or screen or let it hang out in the open air. When tuning to various frequencies, remember that very small movements of the Tuning Control result in relatively large frequency changes.

Move the control slowly and deliberately to pick up all signals within the range of your radio.

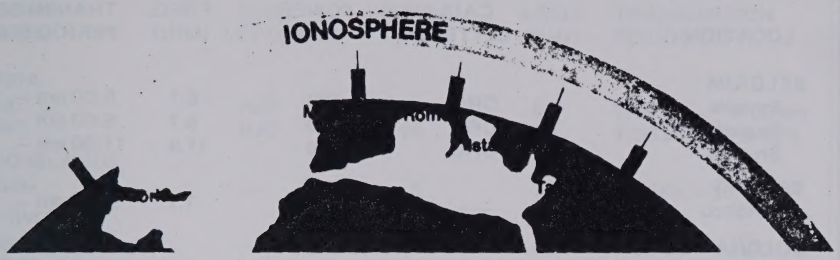
The best time for listening to shortwave broad casts is during the evening and nightime hours. "Ham" operators and foreign stations generally schedule their transmissions in this period. Broadcasts from Australia and the South Pacific are often best in the early morning hours.

Another thing to remember is that the quality of shortwave reception will vary according to the season of the year, prevailing weather conditions, changes in the atmosphere, and the frequency to which you are listening. Fall and winter are generally the best seasons for shortwave reception, especially for European and Far East stations, while Australian and South Pacific stations are strongest in the spring. In any case, interference and intrusive noise are to be expected with any shortwave reception. Your radio is equipped with a tone control to help eliminate these intrusive noises. Patience and experimentation on the part of the listener, however, will be rewarded with a great deal of pleasure -- and many moments of discovery — from this fascinating communications medium.

UNDERSTANDING INTERNATIONAL TIME ZONES

The neophyte shortwave listener may well be confused by the 24-hour time reference used by broadcasters. For example, he may hear a station in Rome, Italy, announce that its next scheduled transmission will be at "1715 hours, GMT". This means, simply, that the broadcast will be at 15 minutes past the 17th hour of the day, starting from midnight or 5:15 p.m. Similarly, "0610 hours" would be 10 minutes after the sixth hour of the day, or 6:10 a.m. The first two digits give the hour; the second give the minutes after the hour.

"GMT" signifies that the time is being given in terms of Greenwich Mean Time, which is the time at the prime meridian (earth longitude 0). The prime meridian is used as the standard reference point for times all over the world. The name Greenwich Time is applied because the prime meridian passes through Greenwich England. It is also referred to as Universal Time (UT) or GCT.



The following tables list major location from which short wave broadcasts originate, times of boradcasts and the frequencies on which they broadcast. Because of weather conditions, interference and frequent changes in broadcast times and frequencies, you will not be able to receive all of them. However, you may also get some that are not listed here. Keep a log of these stations. It's all part of the fun!

Broadcast times are shown in Eastern Standard Time. If you live in the Central Zone. subtract one hour, subtract 2 hours in the Mountain Zone and 3 hours in the Pacific Zone. Make allowance for Daylight Savings Time when required.

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
AFGHANISTAN				
Steamer Point	——	10	7.1	10:00 pm – 4:00 pm
Kabul	——	50	6.0	8:00 pm – Midnight
Kabul	——	50	9.7	1:00 pm – 3:00 pm
ALGERIA				
Algiers	——	50	6.1	4:00 pm – 8:00 pm
Algiers	——	50	11.8	1:00 am – 8:00 pm
ANGOLA				
Luanda	CR6RF	10	9.5	1:00 am – 8:00 pm
Luanda	CR6RF	10	7.3	1:00 am – 6:00 pm
ARGENTINA				
Buenos Aires	LRA	100	6.0	6:00 am – 11:00 pm
Buenos Aires	LRA	100	6.9	7:00 pm – 2:00 am
Buenos Aires	LRA	100	11.7	2:00 pm – 9:00 pm
AUSTRALIA				
Melbourne	VIA	100	7.1	2:00 pm – 7:00 am
Melbourne	VLH	50	9.6	1:00 pm – 4:00 pm
Melbourne	VLG	100	17.8	8:00 pm – 11:00 pm
Sydney	VLI	50	11.8	7:00 am – 8:00 am
AUSTRIA				
Innsbruck	OEI120	5	7.2	1:00 pm – 3:00 pm
Vienna	OEI	50	6.0	11:00 pm – 7:00 pm
Vienna	OEI	50	9.7	7:00 pm – 11:00 pm 4:00 am – Noon
BECHUANALAND				
Mafeking	——	10	7.2	6:00 am – 7:00 am

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
BELGIUM				
Brussels	ORU	100	6.1	6:00 pm – 8:00 pm
Brussels	ORU	100	9.7	6:00 pm – 8:00 pm
Brussels	ORU	100	11.8	11:00 am – 4:00 pm
BENIN				
Cotonou	—	30	7.1	3:00 am – 1:00 pm
BOLIVIA				
La Paz	CP6	10	9.5	6:00 am – 11:00 pm
BORNEO (NORTH) (See Malaysia)				
BRAZIL				
Rio de Janeiro	ZYZ35	100	6.1	3:00 am – 10:00 pm
Rio de Janeiro	PRE–8	50	11.7	3:00 am – 10:00 pm
BRITISH HONDURAS				
Belize	—	10	6.1	11:00 am – 4:00 pm
BRITISH WEST INDIES				
Grenada	—	10	9.5	8:00 pm – 10:00 pm
BULGARIA				
Sofia	—	120	6.0	10:00 am – 5:00 pm
Sofia	—	120	9.7	6:00 pm – Midnight
Sofia	—	50	11.8	5:00 pm – Midnight
Sofia	—	50	17.8	6:00 am – 9:00 am
BRUNEI				
Brunei	—	10	11.9	6:00 pm – 11:00 am
BURMA				
Rangoon	XZK	50	6.0	8:00 pm – 10:00 pm
Rangoon	XZK	50	7.1	2:00 am – 3:00 am
BURUNDI (KINGDOM OF)				
Bujumbura	—	50	6.1	11:00 pm – 1:00 am
CAMBODIA				
Phnom-Penh	—	50	11.9	3:00 pm – 4:00 pm
CAMEROON				
Yaounde	—	30	6.0	2:00 am – Noon
CANADA				
Montreal	CKN	10	5.9	7:00 am – 9:00 am
Montreal	CKY	50	9.6	2:00 am – 4:00 am
Montreal	CHO	50	11.7	7:00 am – 9:00 am
CENTRAL AFRICA				
Bangui	—	30	7.2	2:00 am – Noon
CEYLON				
Colombo	—	35	11.8	7:00 am – 9:00 am
CHAD				
Fort Lamy	—	30	6.1	2:00 am – Noon
Fort Lamy	—	10	9.6	2:00 am – Noon
CHILE				
Santiago	CE970	10	9.7	6:00 am – 11:00 pm
Santiago	CE1190	10	11.9	6:00 am – 11:00 pm

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
COLOMBIA				
Bogota	HJZ	10	6.0	6:00 am – 9:00 am
Bogota	HJC	25	6.1	7:00 am – Midnight
COMORO ISLANDS				
Dzaoudzi	——	5	7.2	Midnight – 10:00 am
CONGO (WEST)				
Brazzaville	——	50	5.9	10:00 am – 5:00 pm
Brazzaville	——	15	7.1	4:00 am – 6:00 am
Brazzaville	——	50	11.7	5:00 pm – 9:00 pm
COSTA RICA				
San Jose	TIH	10	6.0	7:00 am – Midnight
San Jose	TIDCR	3	9.6	6:00 am – Midnight
CUBA				
Havana	COCH	100	6.0	6:00 am – 2:00 am
Havana	COCH	100	11.8	2:00 pm – 5:00 pm
CZECHOSLOVAKIA				
Prague	OLR	100	6.0	8:00 pm – 1:00 am
Prague	OLR	100	9.5	7:00 am – Noon
Prague	OLR	100	11.7	7:00 am – 9:00 am
DENMARK				
Copenhagen	OZF	50	9.5	11:00 am – 1:00 pm
DOMINICAN REPUBLIC				
Santo Domingo	HI4T	7.5	5.9	6:00 am – Midnight
Santo Domingo	HI	50	9.5	6:00 am – Midnight
ECUADOR				
Quito	HCJB	30	6.0	7:00 pm – Midnight
Quito	HCJB	30	9.7	7:00 pm – Midnight
Quito	HCJB	30	11.9	7:00 pm – Midnight
EL SALVADOR				
Santa Ana	——	1	5.9	1:00 pm – 3:00 pm
Santa Ana	——	5	9.5	6:00 pm – 11:00 pm
Santa Ana	——	5	11.7	1:00 pm – 11:00 pm
ENGLAND				
London	——	75	5.9	Noon – 3:00 pm
London	——	75	6.0	1:00 am – 3:00 am
London	——	75	6.1	4:00 pm – 6:00 pm
London	——	75	7.1	6:00 am – 9:00 am
London	——	75	9.7	2:00 am – 5:00 am
London	——	75	11.7	8:00 pm – Midnight
London	——	75	11.8	4:00 pm – 7:00 pm
EGYPT (See United Arab Republic)				
ETHIOPIA				
Addis Ababa	——	20	11.7	10:00 am – 2:00 pm
FIJI ISLANDS				
Suva	VRH	10	6.0	5:00 am – 1:00 pm

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
FINLAND				
Helsinki	OIX	15	6.1	11:00 pm – 5:00 pm
Helsinki	OIX	15	9.5	5:00 am – 9:00 am
Helsinki	OIX	10	11.8	6:00 am – 11:00 am
FORMOSA (See Taiwan)				
FRANCE				
Paris	——	100	5.9	4:00 am – 6:00 pm
Paris	——	100	6.1	Noon – 3:00 pm
Paris	——	100	7.1	Noon – 3:00 pm
Paris	——	100	11.8	10:00 pm – 2:00 am
FRENCH GUIANA				
Cayenne	——	10	6.1	5:00 am – 9:00 pm
FRENCH POLYNESIA				
Papeete	——	4	6.1	11:00 am – 6:00 pm
Papeete	——	4	11.8	2:00 pm – 6:00 pm
FRENCH SOMALILAND				
Djibouti	——	4	6.0	Midnight – 10:00 am
GABON				
Libreville	——	25	7.2	2:00 am – Noon
GAMBIA				
Bathurst	——	1	5.9	Noon – 3:00 pm
GERMANY (EAST)				
Berlin (East)		50	9.7	Midnight – 1:00 pm 10:00 am – 1:00 pm
Berlin (East)		5	6.1	3:00 am – 6:00 am
Nauen		50	11.7	10:00 am – 6:00 pm
Nauen		50	6.0	4:00 pm – 10:00 pm
GERMANY (WEST)				
Berlin (West)	DMR24	10	6.0	11:00 pm – 7:00 pm
Berlin (West)	DMB32	100	7.2	11:00 pm – 7:00 pm
Berlin (West)	DMQ	100	9.6	8:00 pm – Midnight
Berlin (West)	DMQ	100	11.7	6:00 am – 11:00 am
Munich*	——	10	6.0	Noon – 6:00 pm
Munich*	——	20	7.1	2:00 am – 11:00 am
Munich*	——	50	9.7	3:00 am – 4:00 pm
Munich*	——	20	11.8	11:00 pm – 5:00 am
GHANA				
Accra	——	10	7.2	1:00 pm – 3:00 pm
Tema	——	100	9.5	2:00 am – 7:00 am
GREECE				
Athens	——	5	6.0	5:00 am – 6:00 pm
Athens	——	5	11.7	Noon – 2:00 pm
GUATEMALA				6:00 pm – 7:00 pm
Guatemala City	TGW	10	5.9	7:00 am – Midnight
Guatemala City	TGQ	10	11.7	7:00 am – 1:00 am

* Radio Free Europe

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
GUINEA				
Conaky	—	50	6.1	3:00 am – 9:00 am
Conaky	—	50	9.6	11:00 am – 7:00 pm
GUYANA				
Sparendam	ZFY	10	5.9	4:00 am – 1:00 pm
HAITI				
Cap-Haitien	4VE	10	9.7	7:00 pm – 10:00 pm
Cap-Haitien	4VWI	25	11.8	5:00 am – 7:00 pm
HONDURAS				
Tegucigalpa	HRV	10	5.9	9:00 am – Midnight
Tegucigalpa	HRT	10	6.1	7:00 am – Midnight
HUNGARY				
Budapest	—	100	5.9	7:00 pm – 9:00 pm
Budapest	—	100	9.5	8:00 am – 11:00 am
Budapest	—	100	11.9	7:00 pm – 9:00 pm
ICELAND				
Reykjavik	TFU	10	11.7	8:00 am – 10:00 am 2:00 pm – 4:00 pm
INDIA				
Delhi	—	100	6.0	7:00 am – Noon
INDONESIA				
Djakarta	YDE	10	11.7	11:00 pm – 3:00 am
IRAN				
Tehran	EQB	75	6.1	9:00 pm – 2:00 pm
IRAQ				
Baghdad	YIH	200	6.1	10:00 pm – 5:00 pm
IRIAN (WEST)				
Biak	—	5	9.7	6:00 pm – 8:00 pm
ISRAEL				
Tel Aviv	4XB	50	9.6	Noon – 4:00 pm
Tel Aviv	4XB	21	11.9	Noon – 4:00 pm
ITALY				
Rome	—	60	5.9	Noon – 6:00 pm
Rome	—	25	7.1	3:00 am – 5:00 pm
Rome	—	100	9.5	Noon – 4:00 pm
Rome	—	60	11.9	1:00 am – 4:00 am
IVORY COAST				
Abidjan	—	100	6.0	1:00 pm – 7:00 pm
Abidjan	—	100	11.8	2:00 am – 1:00 pm
JAPAN				
Tokyo	JOB6	100	6.0	4:00 pm – 6:00 pm
Tokyo	JOB	100	9.5	Midnight – 10:00 am
Tokyo	JOZ	50	9.5	24 hours
Tokyo	—	100	11.7	24 hours
JORDAN				
Amman	—	100	7.5	10:00 pm – 3:00 am
Amman	—	50	9.5	8:00 pm – 11:00 pm

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
KENYA				
Nairobi	ZGW92	10	7.2	10:00 pm – 10:00 am
Nairobi	ZGW93	10	9.6	10:00 pm – 10:00 am
KOREA				
Seoul	—	50	9.6	3:00 am – 10:00 am
Seoul	—	50	11.9	6:00 pm – Midnight
				9:00 am – 11:00 am
KUWAIT				
Kuwait City	9KV	10	6.0	9:00 pm – 4:00 pm
Kuwait City	9KV29	10	9.5	4:00 am – 4:00 pm
LAOS				
Vientiane	—	10	6.1	Midnight – 1:00 am
Vientiane	—	10	7.1	6:00 pm – 8:00 pm
LEBANON				
Beirut	—	100	9.7	8:00 pm – 11:00 pm
Beirut	—	100	11.8	4:00 pm – 6:00 pm
LIBERIA				
Monrovia	ELWA	50	9.5	8:00 pm – 11:00 pm
Monrovia	ELWA	50	11.9	11:00 pm – 9:00 am
LIBYA				
Benghazi	—	100	9.5	7:00 am – 9:00 am
Benghazi	—	100	11.9	7:00 am – 9:00 am
LUXEMBOURG				
Junglinster	—	50	6.0	Midnight – 7:00 pm
MADAGASCAR				
Tananarive	—	4	7.1	Midnight – 10:00 am
Tananarive	—	4	9.6	Midnight – 10:00 am
MALAWI				
Zomba	—	10	7.2	4:00 am – 8:00 am
MALAYA (See Malaysia)				
MALAYSIA				
Jesselton	—	100	7.1	5:00 pm – 11:00 am
Kuala Lumpur	—	100	6.1	6:00 pm – 7:00 pm
				5:00 am – 6:00 am
Kuala Lumpur	—	10	7.1	6:00 pm – 9:00 pm
				4:00 am – 11:00 am
Kuala Lumpur	—	50	9.7	6:00 pm – 9:00 pm
Kuala Lumpur	—	100	11.9	6:00 pm – 9:00 pm
				5:00 am – 11:00 am
Tebrau	—	75	6.1	6:00 pm – 8:00 pm
MALI				
Bamako	—	50	7.1	1:00 pm – 6:00 pm
MARTINIQUE				
Fort-de-France	—	8	5.9	5:00 am – 11:00 pm
MAURITANIA				
Nouakchott	—	30	6.0	7:00 am – 9:00 am

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
MAURITIUS				
Curepipe	——	10	9.7	2:00 am – 8:00 am
MEXICO				
Acapulco	X7BGL	20	6.1	9:00 am – 11:00 pm
Mexico City	XEPN	20	6.0	7:00 pm – 1:00 am
Mexico City	XEWW	20	9.5	8:00 pm – 1:00 am
Mexico City	XEQQ	10	9.5	8:00 pm – 3:00 am
Mexico City	XENN	10	11.8	8:00 am – 1:00 am
Mexico City	XBD	10	11.9	9:00 am – 11:00 pm
MONACO				
Monte Carlo	3AM	10	6.0	1:00 am – 6:00 pm
Monte Carlo	3AM4	100	7.2	8:00 am – 1:00 pm
Monte Carlo	——	100	11.7	11:00 am – Noon
MOROCCO				
Tangier	——	100	6.0	9:00 pm – 3:00 am
Tangier	——	35	9.6	9:00 pm – 3:00 am
Tangier	——	50	11.8	1:00 am – 3:00 am
MOZAMBIQUE				
Lourenco Marques	——	7.5	9.6	Midnight – 4:00 am
NETHERLANDS				
Hilversum	——	100	9.7	Midnght – 4:00 am
Hilversum	——	100	9.5	3:00 pm – 6:00 pm
Hilversum	——	100	11.7	10:00 am – Noon 4:00 pm – 6:00 pm
NETHERLANDS ANTILLES				
Willemstad	——	5	6.0	6:00 am – Midnight
NEPAL				
Katmandu	9NB7	5	7.1	7:00 am – Noon
Katmandu	9NB7	10	11.9	7:00 am – Noon
NEW CALEDONIA				
Noumea	——	4	7.1	1:00 am – 8:00 am
NEW ZEALAND				
Wellington	ZLZ	8	9.5	Noon – 6:00 pm
Wellington	ZLZ	8	11.7	4:00 am – 10:00 am
NICARAGUA				
Managua	YNWA	5	6.1	7:00 am – Midnight
NIGER				
Naimey	——	30	7.1	3:00 am – 1:00 pm
NIGERIA				
Enugu	——	10	6.0	8:00 am – 5:00 pm
Enugu	——	10	9.6	11:00 am – 5:00 pm
Enugu	——	10	11.9	11:00 am – 3:00 pm
NORTHERN RHODESIA (See Zambia)				
NORWAY				
Oslo	LKJ	100	6.1	11:00 pm – 1:00 am
Oslo	LLG	100	9.6	11:00 pm – 1:00 am
Oslo	LLK	10	11.8	10:00 am – 1:00 pm

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
OKINAWA (See Ryukyu Islands)				
PAKISTAN				
Karachi	——	75	5.9	8:00 pm – 11:00 pm
Karachi	——	50	9.5	7:00 pm – 10:00 pm
Karachi	——	50	11.8	7:00 pm – 9:00 pm
PANAMA				
Panama City	HOJ	10	5.9	7:00 am – 1:00 am
Panama City	HOF	10	9.6	7:00 am – 1:00 am
PAPUA				
Port Moresby	VLT	5	6.1	1:00 am – 9:00 am
Port Moresby	VLT	5	9.5	5:00 pm – 2:00 am
PARAGUAY				
Asuncion	ZPA	10	6.0	5:00 am – 2:00 pm
Ausncion	ZPA	10	9.7	6:00 am – Noon
Ausncion	ZPA	10	11.8	9:00 am – 6:00 pm
PERU				
Lima	OAX	10	5.9	6:00 am – Midnight
PHILIPPINES				
Manila	DZH	30	9.7	10:00 am – 1:00 pm
Manila	DZH8	10	11.8	2:00 am – 5:00 am
Manila	DZF2	50	11.9	11:00 am – Noon
POLAND				
Warsaw	——	100	6.0	10:00 am – 4:00 pm
Warsaw	——	15	7.1	4:00 pm – 6:00 pm
Warsaw	——	15	9.5	8:00 am – 10:00 am
Warsaw	——	100	11.8	11:00 am – 2:00 pm
PORTUGAL				
Lisbon	CSA52	10	6.0	1:00 pm – 7:00 pm
Lisbon	CSA10	100	6.1	7:00 pm – Midnight
Lisbon	CSA27	100	9.7	7:00 pm – 11:00 pm
Lisbon	CSA30	100	11.8	7:00 pm – Midnight
Lisbon*	CSB	50	5.9	11:00 pm – 2:00 am 1:00 pm – 6:00 pm
Lisbon*	CSB	100	7.1	1:00 pm – 6:00 pm
Lisbon*	CSB	100	7.2	11:00 pm – 3:00 am
Lisbon*	CSB	50	9.6	1:00 pm – 6:00 pm
Lisbon*	CSB	50	11.7	9:00 am – 3:00 pm
Lisbon*	CSB	100	15.2	3:00 am – 4:00 pm
Lisbon*	CSB	50	17.8	11:00 am – 3:00 pm
RUMANIA				
Bucharest	——	20	5.9	8:00 pm – Midnight
Bucharest	——	20	6.1	4:00 pm – 9:00 pm
Bucharest	——	17	9.5	8:00 pm – Midnight
Bucharest	——	20	11.8	11:00 pm – Midnight
RWANDA				
Kigali	——	5	6.0	Midnight – 7:00 am

* Radio Free Europe

LOCATION	CALL LETTERS	POWER (Mw)	FREQ (MHz)	TRANSMISSION PERIOD (EST)
RYUKYU ISLANDS				
Okinawa	——	35	6.0	3:00 am – Noon
Okinawa	——	100	11.9	7:00 pm – 9:00 pm
SARAWAK				
Kuching	——	10	7.1	5:00 pm – 6:00 am
SAUDI ARABIA				
Mecca	——	50	9.6	1:00 am – 11:00 am
Mecca	——	10	11.9	10:00 pm – 4:00 pm
SENEGAL				
Dakar	——	25	5.9	5:00 am – 1:00 pm
Dakar	——	100	11.8	9:00 am – 6:00 pm
SIERRA LEONE				
Freetown	——	5	5.9	10:00 am – 6:00 pm
SINGAPORE				
Singapore	——	10	6.1	5:00 pm – Noon
Singapore	——	50	11.9	5:00 pm – Noon
SOLOMON ISLANDS				
Honiara	——	5	5.9	3:00 am – 6:00 am
SOMALI				
Hargeisa	——	10	7.1	10:00 pm – 1:00 am 5:00 am – 3:00 pm
SOUTH AFRICA				
Bloemfontein	——	20	6.1	10:00 pm – 5:00 pm
Bloemfontein	——	20	7.2	10:00 pm – 5:00 pm
Bloemfontein	——	20	9.5	1:00 am – 10:00 am
Bloemfontein	——	20	11.9	1:00 pm – 5:00 pm
SOUTHERN RHODESIA				
Salisbury	——	20	6.0	11:00 pm – 7:00 am
Salisbury	——	20	7.1	5:00 am – 10:00 am
Salisbury	——	20	9.5	1:00 am – 10:00 am
SPAIN				
Madrid	——	40	5.9	2:00 am – 7:00 pm
Madrid	——	100	6.1	10:00 pm – 3:00 am
Madrid	——	100	9.5	10:00 am – 2:00 am
Madrid	——	100	11.9	3:00 am – 8:00 am
SUDAN				
Omdurman	——	20	9.5	10:00 pm – 8:00 pm
Omdurman	——	50	11.8	1:00 pm – 5:00 pm
SWEDEN				
Stockholm	——	100	6.0	9:00 pm – 4:00 am
Stockholm	——	100	9.6	4:00 am – 8:00 pm
Stockholm	——	100	11.7	Noon – 4:00 pm
SWITZERLAND				
Berne	HER	100	6.1	1:00 am – 6:00 pm
Berne	HER	100	9.6	1:00 pm – 6:00 pm
Berne	HER	100	11.8	3:00 pm – 9:00 pm

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
SYRIA				
Damascus	——	50	9.6	11:00 pm – 7:00 pm
Damascus	——	50	11.8	7:00 pm – 11:00 pm
TAIWAN				
Minhsiung	BED26	50	6.0	8:00 pm – 11:00 pm
Pan Chiao	BED 26	25	11.8	8:00 pm – 11:00 pm
Taipei	BEC24	50	7.2	9:00 pm – 10:00 am
Taipei	BEC	50	9.7	6:00 am – 7:00 pm
TANGANYIKA (See Tanzania)				
TANZANIA				
Dar es Salaam	——	20	7.1	Midnight – 9:00 am
Dar es Salaam	——	20	9.5	3:00 am – 6:00 am
Marhubi	——	35	6.0	5:00 am – Noon
Marhubi	——	35	9.5	8:00 am – Noon
THAILAND				
Bangkok	HSA	25	7.1	4:00 am – 10:00 am
Bangkok	HSK	50	11.9	4:00 am – 9:00 am
TOGO				
Lome	——	25	7.2	3:00 am – 1:00 pm
TUNISIA				
Tunis	——	50	6.1	10:00 am – 7:00 pm
Tunis	——	50	11.9	1:00 am – 10:00 am
TURKEY				
Ankara	——	5	6.0	2:00 am – 6:00 pm
Ankara	——	100	7.2	11:00 am – 6:00 pm
Ankara	——	100	9.5	Noon – 6:00 pm
UGANDA				
Kampala	——	10	7.1	1:00 am – 10:00 am
Kampala	——	10	9.6	1:00 am – 10:00 am
UNITED ARAB REPUBLIC (EGYPT)				
Cairo	——	100	7.2	11:00 am – 7:00 pm
Cairo	——	100	11.7	7:00 pm – 11:00 pm
UPPER VOLTA				
Ouagadougou	——	25	7.2	3:00 am – Noon
Ouagadougou	——	25	9.5	3:00 am – 1:00 pm
URUGUAY				
Colonia	CXA	10	9.6	8:00 pm – 1:00 am
Montevideo	CXA15	10	11.8	7:00 pm – 10:00 pm
UNITED STATES OF AMERICA (VOA)				
Cincinnati	WLWO	100	6.1	6:00 am – 8:00 am
Cincinnati	WLWO	100	9.7	10:00 pm – 3:00 am
Cincinnati	WLWO	100	11.8	6:00 am – 10:00 am
Los Angeles	KCBR	100	6.0	1:00 am – Noon
Los Angeles	KCBR	200	9.5	11:00 am – 1:00 pm
Los Angeles	KCBR	50	11.7	5:00 pm – 1:00 am
New York	WDSI	100	9.5	5:00 pm – 11:00 pm
San Francisco	KGEI	50	9.5	8:00 pm – Midnight

LOCATION	CALL LETTERS	POWER (Mw)	FREQ. (MHz)	TRANSMISSION PERIOD (EST)
U.S.S.R. (Byelorussia)				
Minsk	——	100	7.1	10:00 pm – 10:00 am
Minsk	——	100	9.6	10:00 pm – 4:00 pm
Minsk	——	100	11.9	10:00 pm – Noon
U.S.S.R. (Europe)				
Moscow	——	50	5.9	3:00 pm – 8:00 pm
Moscow	——	50	6.1	9:00 pm – 6:00 pm
Moscow	——	50	7.2	2:00 pm – 10:00 am
Moscow	——	100	9.7	11:00 am – 5:00 pm
Moscow	——	100	11.8	8:00 am – 2:00 am
Moscow	——	50	11.9	7:00 am – 8:00 am
U.S.S.R. (Ukrainia)				
Kharkov	——	15	11.9	9:00 pm – 2:00 pm
Kiev	——	100	6.1	7:00 pm – 1:00 am
Kiev	——	100	9.7	8:00 pm – 3:00 am
VATICAN CITY				
Vatican City	——	100	6.1	11:00 am – 4:00 pm
Vatican City	——	100	7.2	11:00 am – 5:00 pm
Vatican City	——	100	9.6	2:00 pm – 6:00 pm
Vatican City	——	100	11.7	6:00 pm – 9:00 pm
VENEZUELA				
Caracas	——	10	11.7	8:00 pm – Midnight
VIETNAM				
Ho Chi Minh City	——	50	7.2	10:00 pm – 3:00 am
Ho Chi Minh City	——	50	9.2	4:00 am – 10:00 am
Ho Chi Minh City	——	50	11.9	8:00 pm – 1:00 am
YUGOSLAVIA				
Belgrad	——	100	6.1	9:00 am – 2:00 pm
Belgrad	——	10	7.2	1:00 pm – 3:00 pm
Belgrad	——	100	11.7	7:00 pm – 10:00 pm
ZAIRE				
Kinshasa	9RCI	100	11.8	10:00 am – 4:00 pm
Kisangani	9RST	10	6.0	10:00 am – 3:00 pm
ZAMBIA (NORTHERN RHODESIA)				
Lusaka	——	20	7.2	11:00 pm – 2:00 am
Lusaka	——	20	9.5	5:00 am – 10:00 am

2959-47-02

PRINTED IN HONG KONG